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A contribution to the knowledge of the Histeridae (Coleoptera) fauna of Turkey

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A b s t r a c t : This study is based upon material from subfamilies Dendrophilinae and Saprinae of the family Histeridae collected from different localities of Turkey between 1971 and 2016. The study resulted in recording for Turkish fauna of 1 species from 1 genus of Dendrophilinae and 16 species and subspecies from 5 genera of Saprinae. In total, 17 species and subspecies belonging to 6 genera of the subfamilies Dendrophilinae and Saprinae are listed. Among them, *Saprinus tenuistrius tenuistrius* (MARSEUL, 1855) is newly recorded from Turkey. In addition, new localities have been found for some species and subspecies which have already been reported from Turkey.

K e y w o r d s : Coleoptera, Histeridae, Dendrophilinae, Saprinae, Fauna, Turkey.

Introduction

Histeridae is big family of beetles of which are known about 391 genera and 4.252 species (MAZUR 2011). They are heavily sclerotized, and have a characteristic form, being usually oval and convex in shape, but are sometimes flattened or cylindrical. Almost all parts of the body can bear taxonomically important striae and other sculpture. Histerids are predacious beetles, both as adults and as larvae, feeding on mites, and also other insects, especially the immature stages of Diptera and Coleoptera. They live in a wide variety of habitats, including dung, carrion, leaf litter, bird and mammal nests, under bark, in the galleries of wood-boring insects, and sometimes in stored products. Some species are potential biological control agents of boring insect pests. Other histerids are myrmecophiles or termitophiles (BOOTH et al. 1990).

Turkey is biogeographically one of the most interesting countries in the West Palaearctic region. Some faunistic studies on these family in the Turkey have been made by SAHLBERG (1912-1913), WINKLER (1924-1932), GADEAU DE KERVILLE (1939), BYZINSKI-SALZ (1956), TUATAY et al. (1972), MAZUR (1981), KANAAR (1992), TEZCAN & YELAMOS (2004), ANLAŞ et al. (2007), ÖZDEMİR & SERT (2008, 2009), ROZNER (2010), BANA & BEYARSLAN (2012) and SANVER & TEZCAN (2016).

The aim of this paper is to present some further records of Histeridae from Turkey.

Materials and Methods

The material of the Histeridae were collected from different localities of Turkey between 1971 and 2016. In addition, material collected in previous years from different localities

of Turkey and preserved in the collection of Ataturk University, Faculty of Agriculture, Department of Plant Protection, the Entomology Museum, Erzurum, Turkey (EMET) is been also evaluated.

Provinces of the collected specimens are given in alphabetical order in the following list. The material is deposited in the Entomology Museum, Erzurum, Turkey (EMET). Systematic and nomenclature follows LÖBL & LÖBL (2016).

Results

In this study, 1 species from 1 genus of Dendrophilinae and 16 species and subspecies from 5 genera of Saprininae are recorded. These records improve the knowledge of the Histeridae fauna of Turkey.

Family Histeridae GYLENHALL, 1808

Subfamily Dendrophilinae REITTER, 1909

Genus *Carcinops* MARSEUL, 1855

Carcinops pumilio (ERICHSON, 1834)

Material examined: Ankara: Yenimahalle, 19.IX.2010, ♂.

Subfamily Saprininae C.E. BLANCHARD, 1845

Genus *Chalcionellus* REICHARDT, 1932

Chalcionellus decemstriatus decemstriatus (P. ROSSI, 1792)

Material examined: Erzurum: Aşkale, Gürkaynak, N 39°55'30.2", E 40°29'52.8", 1852 m, 08.VI.2012, ♀, Pasinler, Tımar, N 40°02'53.5", E 41°44'40.7", 1834 m, 24.V.2013, 2♂♂.

Genus *Hister* (LINNAEUS, 1758)

Hister illigeri illigeri DUFTSCHMID, 1805

Material examined: Erzurum: Aşkale, Gürkaynak, N 39°55'30.2", E 40°29'52.8", 1852 m, 08.VI.2012, 2♀♀, ♂, Aziziye, Dallıkavak, N 40°10'32.8", E 40°58'04.8", 2320 m, 14.VI.2013, ♂, Pasinler, Korucuk, 1814 m, 10.VII.2013, ♂, Yakutiye, Atatürk University Field, N 39°53'51.67", E 41°13'02.07", 1850 m, 10.VII.2011, ♂, Karagöbek, N 40°10'18.6", E 41°26'15", 2017 m, 19.V.2013, 2♂♂.

Hister moerens ERICHSON, 1834

Material examined: Erzurum: Palandöken, Nenehatun, 1900 m, 21.IV.2002, 2♀♀, ♂, Yakutiye, Atatürk University Field, N 39°53'51.67", E 41°13'02.07", 1850 m, 27.V.2010, ♂.

Hister quadrimaculatus (LINNAEUS, 1758)

Material examined: Artvin: Şavşat, Yavuzköy, 1680 m, 11.VI.2005, ♀; Erzurum: Palandöken, Nenehatun, 1900 m, 21.IV.2002, 2♀♀, 4♂♂; Kars: Sarıkamış, Karakurt, N 40°07'54.3", E 42°20'94.1", 1501 m, 17.IV.2002, ♀, ♂, 1770 m, 20.IV.2005, ♀; Mus: 05.V.1972, ♂.

***Hister quadrinotatus quadrinotatus* L.G. SCRIBA, 1790**

Material examined: Ardahan: 07.V.1974, ♂; Erzurum: Aziziye, 1684 m, 20.IV.2002, 2♀, 2♂♂, 1793 m, 16.V.2010, ♂, Oltu, 18.IV.1972, ♀.

Genus *Margarinotus* MARSEUL, 1853***Margarinotus (Paralister) purpurascens* (HERBST, 1791)**

Material examined: Erzurum: Köprüköy, Eğirmez, 1670 m, 26.VI.2011, ♀, Yakutiye, Atatürk University Field, 1800 m, 05.VIII.2010, ♀.

***Margarinotus (Ptomister) terricola* (GERMAR, 1824)**

Material examined: Bursa: Ballıkaya, 08.VII.1996, ♂.

***Margarinotus (Stenister) obscurus* KUGELANN, 1792**

Material examined: Erzurum: Palandöken, Nenehatun, 1900 m, 21.IV.2002, ♀, ♂, Oltu, 18.IV.1972, ♂.

Genus *Pachylister* LEWIS, 1904***Pachylister inaequalis* (OLIVIER, 1789)**

Material examined: Antalya: Manavgat, 30.VIII.1996, ♀; Diyarbakır: Ergani, 24.VII.2016, ♂; Konya: 09.VII.1995, ♂.

Genus *Saprinus* ERICHSON, 1834***Saprinus externus* (FISCHER von WALDHEIM, 1823)**

Material examined: Erzurum: Palandöken, 07.VI.1972, ♂, 18.VI.1971, 4♀, 7♂♂, 15.VII.1971, ♀, ♂, 18.VII.1979, ♂, 17.VIII.1972, ♀, ♂, Yakutiye, 15.VII.1980, ♂, 17.VII.1972, 10♀, 11♂♂, 20.VII.1971, 8♀, 16♂♂, 27.VIII.1972, ♂.

***Saprinus magnoguttatus* J. MÜLLER, 1937**

Material examined: Erzurum: Palandöken, 17.VI.1971, ♂, 18.VI.1971, ♂.

***Saprinus subnitescens* BICKHARDT, 1909**

Material examined: Erzurum: Yakutiye, 20.VII.1971, 2♂♂.

***Saprinus tenuistrius sparsutus* SOLSKY, 1876**

Material examined: Erzurum: Yakutiye, 20.VII.1971, ♂.

***Saprinus tenuistrius tenuistrius* MARSEUL, 1855**

Material examined: Karaman: 10.VII.2014, ♂.

This subspecies is newly recorded from Turkey.

***Saprinus planiusculus* MOTSCHULSKY, 1849**

Material examined : Erzurum: Yakutiye, 07.VI.1971, 2♂♂, 20.VII.1971, ♀, 5♂♂.

***Saprinus robustus* (= *vermiculatus* REICHARDT, 1923) KRÀSA, 1944**

Material examined : Erzurum: Palandöken, 2200 m, 07.VI.1972, ♂.

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Zusammenfassung

Vorliegende Arbeit behandelt das Vorkommen der Histeridae-Unterfamilien Dendrophilinae und Saprininae in der Türkei, basierend auf Aufsammlungen im Zeitraum 1971 bis 2016. Insgesamt gelang der Nachweis von 17 Arten bzw. Unterarten aus 6 Gattungen. *Saprinus tenuistrius tenuistrius* (MARSEUL, 1855) wurde erstmalig für die Türkei bestätigt.

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